

Title (en)  
Non-azide gas generant formulations

Title (de)  
Azidfreie gaserzeugende Zusammensetzungen

Title (fr)  
Compositions génératrices de gaz exempt d'azoture

Publication  
**EP 0536916 B1 19970108 (EN)**

Application  
**EP 92308619 A 19920922**

Priority  
US 77475591 A 19911009

Abstract (en)  
[origin: EP0536916A1] Gas generating compositions or propellants are provided which comprise a non-azide fuel which is a transition metal complex of an aminoarazole. Preferred transition metal complexes are zinc and copper complexes of 5-aminotetrazole and 3-amino-1,2,4-triazole, with the zinc complexes most preferred. The propellant compositions also include a conventional oxidizer, such as potassium nitrate or strontium nitrate. These compositions are useful for generating a nitrogen-containing gas for a variety of applications, especially for inflating air bags in automotive restraint systems, as well as other inflatable devices.

IPC 1-7  
**C06D 5/06**; C06B 43/00

IPC 8 full level  
**B60R 21/26** (2006.01); **C06B 43/00** (2006.01); **C06D 5/00** (2006.01); **C06D 5/06** (2006.01)

CPC (source: EP KR US)  
**C06B 43/00** (2013.01 - EP US); **C06D 5/00** (2013.01 - KR); **C06D 5/06** (2013.01 - EP US)

Cited by  
EP0740645A4; EP0661252A3; EP1613569A4; EP0736506A1; EP0765299A4; EP1982969A1; EP0723530A4; EP0805789A4; DE19505568A1; EP0659715A3; EP0712384A4; EP2450329A3; US5594146A; JP4810040B2; EP1286936A4; US6588797B1; US6241281B1; US8142581B2; WO0029355A1; WO2008127107A3; JP200351387A

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